

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	575	convolution WITH weight	US-PGPUB; USPAT	OR	ON	2007/09/14 08:22
L3	0	(convolution WITH weight) AND (multiply\$3 WITH forward WITH backward WITH kernel)	US-PGPUB; USPAT	OR	ON	2007/09/14 08:23
L4	78	(convolution WITH weight) AND (multiply\$3 WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 08:24
L5	36	(convolution WITH weight) AND (multiply\$3 WITH weight) AND kernel	US-PGPUB; USPAT	OR	ON	2007/09/14 08:24
L6	11	(convolution WITH weight) AND (multiply\$3 WITH weight) AND kernel AND forward	US-PGPUB; USPAT	OR	ON	2007/09/14 08:49
L7	1	(convolution WITH weight) AND (multiply\$3 WITH weight) AND kernel AND forward AND backward	US-PGPUB; USPAT	OR	ON	2007/09/14 08:25
L8	6	(convolution WITH weight) AND (multiply\$3 WITH kernel WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 08:50
L9	1	(convolution WITH weight) AND (multiply\$3 WITH kernel WITH weight) AND forward	US-PGPUB; USPAT	OR	ON	2007/09/14 08:52
L10	2	multiply\$3 WITH (forward ADJ1 weight) SAME (backward ADJ1 weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 08:55
L11	2	multiply\$3 SAME (forward ADJ1 weight) WITH (backward ADJ1 weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 08:56
L12	2	multiply\$3 WITH (forward ADJ1 weight) WITH (backward ADJ1 weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 08:58
L13	0	multiply\$3 WITH (forward ADJ1 weight) WITH ( backward ADJ1 weight) AND (convolution WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 08:59
L14	2	multiply\$3 WITH (forward ADJ1 weight) WITH ( backward ADJ1 weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:00
L15	575	convolution WITH weight	US-PGPUB; USPAT	OR	ON	2007/09/14 09:00
L16	55	(convolution WITH weight) WITH kernel	US-PGPUB; USPAT	OR	ON	2007/09/14 09:04
L17	4	(convolution WITH weight) WITH kernel WITH multiply\$3	US-PGPUB; USPAT	OR	ON	2007/09/14 09:01

## EAST Search History

L19	1	("20060188154").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 09:14
L20	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 09:14
L28	0	(convolution WITH weight) SAME (specify\$3 WITH zero WITH value)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:27
L29	1	(convolution WITH weight) AND (specify\$3 WITH zero WITH value)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:28
L30	0	(convolution WITH weight) AND (specify\$3 WITH zero ADJ1 value)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:28
L31	0	specify\$3 WITH (zero ADJ1 value) SAME (onvolution WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:34
L32	0	specify\$3 WITH (zero ADJ1 value) SAME (convolution WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:34
L33	0	(zero ADJ1 value) SAME (convolution WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:34
L34	49	(zero ADJ1 value) AND (convolution WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:34
L35	0	(zero ADJ1 value) WITH (convolution WITH weight)	US-PGPUB; USPAT	OR	ON	2007/09/14 09:34
L36	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 11:48
L37	1	("20030169944").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 13:26
L38	1	("20030197877").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 13:26
L39	18	depth WITH value WITH field WITH filter\$3	US-PGPUB; USPAT	OR	ON	2007/09/14 14:03
L40	18	(depth WITH value WITH field WITH filter\$3)	US-PGPUB; USPAT	OR	ON	2007/09/14 14:36
L41	1	("6791540").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 14:09
L42	1	("6791540").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 14:34
L43	0	(depth WITH value WITH field WITH filter\$3) AND (convolution WITH weight WITH depth WITH value)	US-PGPUB; USPAT	OR	ON	2007/09/14 14:37
L44	0	(convolution WITH weight WITH depth WITH value)	US-PGPUB; USPAT	OR	ON	2007/09/14 14:37
L45	0	(convolution WITH weight ) SAME ( depth WITH value)	US-PGPUB; USPAT	OR	ON	2007/09/14 14:39
L46	575	(convolution WITH weight )	US-PGPUB; USPAT	OR	ON	2007/09/14 14:39

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L47	34283	depth WITH value	US-PGPUB; USPAT	OR	ON	2007/09/14 14:39
L48	65	46 and 47	US-PGPUB; USPAT	OR	ON	2007/09/14 14:45
L49	0	46 SAME 47	US-PGPUB; USPAT	OR	ON	2007/09/14 14:39
L54	0	convolution WITH weight WITH zero WITH value	US-PGPUB; USPAT	OR	ON	2007/09/14 14:55
L55	4	(convolution WITH weight) SAME ( zero WITH value)	US-PGPUB; USPAT	OR	ON	2007/09/14 14:56
L56	1	("6728416").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 15:50
L57	1	("20050025378").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 15:50
L58	1	("6791540").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 15:51
L59	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 15:51
L60	1	("20030169944").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 15:51
L61	1	("20030197877").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/14 15:51
S1	339	382/279	US-PGPUB; USPAT	OR	ON	2007/02/27 16:10
S2	2	382/279.ccls. and kernel and forward and backward	US-PGPUB; USPAT	OR	ON	2007/02/21 17:06
S3	0	(filter\$ WITH image) SAME (forward AND backward AND kernel AND convolution AND weight)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:10
S4	37	(filter\$ WITH image) SAME ( kernel AND convolution AND weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:20
S5	0	(kernel WITH convolution) SAME (forward AND backward AND weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:22
S6	1	(kernel WITH convolution) SAME (forward AND backward AND weight )	US-PGPUB; USPAT	OR	ON	2007/02/21 17:23
S7	1845	(kernel WITH convolution)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:23
S8	35	(kernel WITH convolution) SAME (pixel AND weight)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:24
S9	0	(kernel WITH convolution) SAME (pixel AND weight AND forward AND backward)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:25

## EAST Search History

S10	63	(kernel WITH convolution) SAME (pixel AND weight OR forward OR backward)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:26
S11	7	(kernel WITH convolution) SAME (pixel AND weight AND forward OR backward)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:35
S12	0	(forward WITH kernel) SAME ( weight AND first AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:37
S13	0	(forward WITH kernel) SAME ( weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:38
S14	256	kernel SAME ( weight AND pixel) <sup>s</sup>	US-PGPUB; USPAT	OR	ON	2007/02/21 17:38
S15	117	kernel SAME ( convolution AND weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:39
S16	4	kernel SAME ( forward AND convolution AND weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:39
S17	1	kernel SAME ( forward AND backward AND convolution AND weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:40
S18	0	(forward SAME backward SAME kernel )SAME ( convolution AND weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:41
S19	569	(filter\$ WITH image) SAME (kernel AND convolution AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:43
S20	233	(filter\$ WITH image) SAME (kernel AND convolution AND pixel AND forward OR backward)	US-PGPUB; USPAT	OR	ON	2007/02/21 17:43
S21	29	(convolution WITH weight) SAME (kernel SAME pixel)	US-PGPUB; USPAT	OR	ON	2007/02/22 13:31
S22	1	(convolution WITH weight) SAME (forward SAME backward SAME kernel )	US-PGPUB; USPAT	OR	ON	2007/02/22 13:33
S23	769	162/198.ccls. convolution AND weight AND kernel AND forward AND backward	US-PGPUB; USPAT	OR	ON	2007/02/22 13:38
S24	745	162/198.ccls. convolution AND weight AND kernel AND forward AND backward AND pixel	US-PGPUB; USPAT	OR	ON	2007/02/22 13:35
S25	559	(162/198).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/22 13:35
S26	451	(356/429).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/22 13:36
S27	1	356/429.ccls. AND convolution AND weight AND kernel AND backward AND forward AND pixel AND image	US-PGPUB; USPAT	OR	ON	2007/02/22 13:37

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S28	1	356/429.ccls. AND convolution AND weight AND kernel AND backward AND forward AND pixel	US-PGPUB; USPAT	OR	ON	2007/02/22 15:13
S29	1	162/198.ccls. AND convolution AND weight AND kernel AND forward AND backward	US-PGPUB; USPAT	OR	ON	2007/02/22 15:14
S30	637	356/429.ccls. convolution AND weight AND kernel AND backward AND forward AND pixel	US-PGPUB; USPAT	OR	ON	2007/02/22 13:50
S31	11	(filter\$ WITH image) SAME (forward AND kernel AND pixel AND weight)	US-PGPUB; USPAT	OR	ON	2007/02/22 13:54
S32	1	(filter\$ WITH image) SAME (backward AND kernel AND pixel AND weight)	US-PGPUB; USPAT	OR	ON	2007/02/22 13:55
S33	5	(filter\$ WITH image) SAME (convolution AND forward AND kernel AND pixel AND weight)	US-PGPUB; USPAT	OR	ON	2007/02/22 14:56
S34	84	filter SAME kernel SAME pixel SAME weight	US-PGPUB; USPAT	OR	ON	2007/02/22 14:06
S35	5	backward SAME forward SAME kernel SAME pixel	US-PGPUB; USPAT	OR	ON	2007/02/22 14:06
S36	5	(filter\$ WITH image) SAME (convolution AND forward AND kernel AND pixel AND weight)	US-PGPUB; USPAT	OR	ON	2007/02/22 14:56
S37	1	356/429.ccls. AND convolution AND weight AND kernel AND pixel	US-PGPUB; USPAT	OR	ON	2007/02/22 15:14
S38	1	162/198.ccls. AND convolution AND weight AND kernel	US-PGPUB; USPAT	OR	ON	2007/02/22 15:46
S39	0	convolution WITH kernel WITH filter WITH forward WITH backward	US-PGPUB; USPAT	OR	ON	2007/02/22 15:48
S40	35610	convolution filter WITH forward WITH backward	US-PGPUB; USPAT	OR	ON	2007/02/22 15:48
S41	4	convolution WITH filter WITH forward WITH backward	US-PGPUB; USPAT	OR	ON	2007/02/22 15:51
S42	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/22 17:04
S43	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/23 11:35
S44	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/23 11:36
S45	3614	(filter\$ WITH image) SAME (kernel AND convolution AND substant\$ AND zero AND non zero)	US-PGPUB; USPAT	OR	ON	2007/02/23 11:38

## EAST Search History

S46	173	(filter\$ WITH image) SAME (kernel AND convolution AND substant\$ AND zero AND non zero AND weight AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/23 11:47
S47	20	(filter\$ WITH image) SAME (kernel AND convolution AND substant\$ AND zero AND non zero AND weight AND pixel AND forward AND backward)	US-PGPUB; USPAT	OR	ON	2007/02/23 15:59
S48	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/23 13:14
S49	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/23 13:14
S50	19	(filter\$ WITH image) SAME (kernel AND convolution AND substant\$ AND zero AND non zero AND weight AND pixel AND forward AND backward AND radius)	US-PGPUB; USPAT	OR	ON	2007/02/23 15:59
S51	19	(filter\$ WITH image) SAME (kernel AND convolution AND substant\$ AND zero AND non zero AND weight AND pixel AND forward AND backward AND radius AND location)	US-PGPUB; USPAT	OR	ON	2007/02/26 08:24
S52	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/26 08:18
S53	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/26 08:18
S54	2406	(filter\$ WITH image) SAME (forward AND kernel AND location AND weight AND distance OR pixel AND center)	US-PGPUB; USPAT	OR	ON	2007/02/26 10:02
S55	1	(filter\$ WITH image) SAME (forward AND kernel AND location AND weight AND distance AND pixel AND center)	US-PGPUB; USPAT	OR	ON	2007/02/26 17:00
S56	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/26 17:01
S57	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/26 17:02
S59	322	(backward AND kernel AND radius AND pixel)	US-PGPUB; USPAT	OR	ON	2007/02/26 17:04
S60	41	(backward AND kernel AND radius AND pixel) SAME image	US-PGPUB; USPAT	OR	ON	2007/02/26 17:12
S61	7361	(backward AND kernel radius AND pixel) SAME image	US-PGPUB; USPAT	OR	ON	2007/02/26 17:13
S62	1	(backward AND kernel ADJ radius AND pixel) SAME image	US-PGPUB; USPAT	OR	ON	2007/02/26 17:16

## EAST Search History

S63	2	(kernel ADJ radius) SAME (backward AND pixel AND intensity OR color OR threshold)	US-PGPUB; USPAT	OR	ON	2007/02/27 08:50
S64	1	("20030169944").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/26 17:24
S65	1	("20030197877").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 08:37
S66	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:22
S67	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:24
S68	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:45
S69	404	(382/261).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:45
S71	944	(382/260).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:45
S73	1097	(382/254).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:46
S74	1312	(375/232).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:46
S75	636	(375/233).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:46
S76	1521	(375/350).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:46
S77	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 10:59
S78	0	(filter\$ WITH image) SAME ( forward SAME kernel) SAME (software ADJ product)	US-PGPUB; USPAT	OR	ON	2007/02/27 11:01
S79	20	(filter\$ WITH image) SAME (software ADJ product)	US-PGPUB; USPAT	OR	ON	2007/02/27 11:01
S80	3	(filter\$ WITH image SAME kernel) SAME (software ADJ product)	US-PGPUB; USPAT	OR	ON	2007/02/27 11:35
S81	0	convolution WITH weight SAME pixel SAME forward SAME backward	US-PGPUB; USPAT	OR	ON	2007/02/27 11:37
S82	0	convolution SAME weight SAME pixel SAME forward SAME backward	US-PGPUB; USPAT	OR	ON	2007/02/27 11:37
S83	5	convolution SAME weight SAME forward SAME backward	US-PGPUB; USPAT	OR	ON	2007/02/27 15:40
S84	1	("20030095693").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 15:40
S85	1	("6215496").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 15:41

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S86	1	("20030169944").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 15:41
S87	1	("20030197877").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 15:42
S88	1	("7171436").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 15:42
S89	1	("20010041838").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 16:14
S90	1	("4466554").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 16:17
S91	1	("20010041838").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/27 16:17
S92	1	("5541658").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:36
S93	1	("5615243").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:37
S94	1	("6457032").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:37
S95	1	("6556696").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:37
S96	1	("6704049").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:37
S97	1	("6728416").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:37
S98	1	("6791540").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:38
S99	1	("20050025378").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:38
S10 0	1	("6765589").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:38
S10 1	1	("7098932").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 14:38